

## CLIMATOLOGICAL DATA FOR NOVEMBER, 1912.

## DISTRICT No. 7, LOWER MISSISSIPPI VALLEY.

ISAAC M. CLINE, District Editor.

## GENERAL SUMMARY.

Moderate temperature conditions prevailed generally until the 27th, when a cool wave overspread the district, giving temperatures below freezing nearly to the Gulf coast in Louisiana. The precipitation was light and scattered, and there were no well-defined rainy periods, except in Arkansas and in the Missouri area where the precipitation nearly all occurred during the first 6 days of the month. The weather was generally favorable for all outdoor occupations.

The following table summarizes the chief features of meteorological interest in the various portions of the district:

States and portions of States lying within District No. 7.	Mean temperature.	Departure from normal.	Mean precipitation.	Departure from normal.	Greatest precipitation in 24 hours.	Mean snowfall.	Number of days.			Prevailing wind direction.
							With 0.01 or more.	Clear.	Partly cloudy.	
Colorado.....	38.3	+0.9	0.22	-0.44	.65	1.7	2	21	7	2 W. SW.
New Mexico.....	41.8	-0.4	0.07	-0.53	.94	0.7	0	23	6	1 S.
Texas.....	49.9	-0.2	0.40	-1.62	1.30	0.5	1	22	4	4 S.
Kansas.....	46.1	+1.8	0.39	-0.78	1.66	0.6	2	21	6	3 S.
Oklahoma.....	49.6	-0.5	0.62	-1.43	1.96	T.	2	22	5	3 S.
Missouri.....	47.0	+0.6	1.35	-1.08	2.30	T.	3	22	4	4 S.
Tennessee.....	47.7	-2.0	1.16	-3.63	1.50	T.	3	19	3	8 N.
Arkansas.....	50.5	-0.2	1.66	-2.07	2.93	T.	2	19	7	4 N.
Mississippi.....	51.4	-2.9	1.21	-2.42	1.10	0.2	4	20	4	6 N.
Louisiana.....	55.4	-3.1	1.22	-2.26	2.29	T.	2	17	6	7 N.

## TEMPERATURE.

Mean temperatures ranged from  $0.2^{\circ}$  to  $6.4^{\circ}$  below the normal in Louisiana, the Mississippi, Tennessee, and New Mexico areas, southern Arkansas, and over east-central, southern, and extreme western Oklahoma; elsewhere there was an excess ranging from  $0.3^{\circ}$  to  $4.5^{\circ}$ . No great extremes of temperature were experienced. Below zero readings were reported from 6 stations in the Colorado area and 7 stations in the New Mexico area; elsewhere the lowest readings were well above zero. The highest temperature recorded,  $91^{\circ}$ , occurred at Reserve, La., and the lowest,  $-6^{\circ}$ , was reported from Elizabethtown, N. Mex. Minimum readings of  $-4^{\circ}$  were reported from Santa Clara and Lake Moraine, Colo.

## PRECIPITATION BY DRAINAGE AREAS.

*Arkansas River and tributaries.*—The precipitation was unevenly distributed over this drainage area. In Colorado the average from 33 stations was 0.20 inch, about one-half inch below the normal. Over those portions of the Arkansas Valley proper that lie in Kansas and Oklahoma the average from 40 stations was 0.46 inch, about 0.8 inch below the normal. Over that portion of the Canadian Valley lying in New Mexico 26 stations reported no precipitation during the month, and the average from 36 stations was only 0.05 inch, about 0.7 inch below the normal. Over those portions of the Canadian Valley lying in Texas and Oklahoma the precipitation was somewhat heavier, the average from 25 stations being 0.57 inch, about 1.4 inches below the normal. The amounts from 20 stations in the Cimarron Valley aver-

aged 0.22 inch, about 1.1 inches below the normal. Over the Verdigris Valley the precipitation was light, the average from 10 stations being 0.52 inch, about 1.2 inches below the normal. Over the Neosho Valley the precipitation was somewhat heavier, the average from 17 stations being 1.13 inches, about 0.8 inch below the normal. Below the Oklahoma-Arkansas line the precipitation over the Arkansas Valley proper was very light, the average from 13 stations being 1.55 inches, about 2 inches below the normal.

*Red River and tributaries.*—Less than the normal precipitation occurred in all parts of this drainage area. Over those portions of the Red River Valley that lie in New Mexico, Texas, and Oklahoma, the average from 40 stations was 0.46 inch, about 1.6 inches below the normal. Below the Texas-Arkansas line, the average from 19 stations was 0.78 inch, about 3.1 inches below the normal.

*Mississippi River south of St. Louis and small tributaries.*—The precipitation was unevenly distributed over this drainage area, and there was a deficiency in all portions. In the immediate Mississippi Valley, the amounts from 37 stations averaged 1.48 inches, about 2.4 inches below the normal. The average from 21 stations in the Valley of the White River was 2.22 inches, about 1.5 inches below the normal. Over the Yazoo Valley the average from 22 stations was 1.20 inches, about 2.5 inches below the normal. The average from 4 stations in the Valley of the Big Black was 1.30 inches, about 1.6 inches below the normal. In the Ouachita Valley the average from 19 stations was 1.11 inches, about 2.9 inches below the normal.

*Louisiana coastal plain.*—The precipitation was light throughout this drainage area, the average from 35 stations being 1.48 inches, about 1.7 inches below the normal.

## SNOWFALL.

Snow occurred generally in the Colorado area, and in parts of the New Mexico, Kansas, and northern portion of the Mississippi areas, and in northern and western Oklahoma, but the amounts were very light. A trace occurred at scattered stations in other portions of the district. The snowfall in the mountainous portions of the Colorado and New Mexico areas was very deficient, and there was probably less snow stored in the mountains at the close than at the opening of the month, owing to the prevalence of warm weather.

## RIVERS.

All rivers in Oklahoma continued below the normal stage, and no decided changes were reported.

In the Kansas area the rivers continued at low stages.

In Arkansas the Black, White, and Arkansas Rivers continued unusually low, and the Arkansas was navigable only from the 7th to 17th.

Changes in the Mississippi below St. Louis were slight and unimportant, and low stages prevailed generally.

The Ouachita rose from the 4th to 10th, when a stage of 10.5 feet was recorded at Camden, Ark., after which there was a steady fall, the lowest stage of the month, 4 feet, being reached at Camden on the 30th.

TABLE I.—Climatological data for November, 1912. District No. 7, Lower Mississippi Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.			Sky.	Prevailing wind direction.	Observers.						
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmetted.	Number of rainy days 0.05 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>Colorado.</i>																					
Buena Vista.....	Chaffee.....	7,955	12	29.2	-3.3	50	10†	0	26	45	T.	-0.43	T.	0	0	22	4	4	nw.	C. A. Short.	
Calhan.....	El Paso.....	6,700	5																	H. B. Rice.	
Canon City.....	Fremont.....	5,343	24	46.9	+4.5	74	9†	14	27	42	T.	-0.47	T.	T.	0	25	3	2	ne.	U. S. Weather Bureau.	
Colorado Springs.....	El Paso.....	6,098	32	38.4	+0.9	67	9	-2	27	40	0.02	-0.32	0.01	0.2	2	19	7	4	n.	Colorado College.	
Cripple Creek.....	Teller.....	9,396	11									0.09	-0.33	0.09	1.3	1				F. G. Willis.	
Cuchara Camps.....	Huerfano.....	8,200	3									0.44	-0.21	5.8	3	28	2	0	sw.	George A. Mayes.	
Edas.....	Kiowa.....	4,209	5																Mrs. Mattie A. Kerr.		
Fairview.....	Custer.....	9,500	3									0.43		0.28	6.0	2	19	11	0	e.	Elizabeth L. Gray.
Fremont Exper. Sta. ....	El Paso.....	8,850	2	33.9		60	9	-2	26	49	0.17		0.16	3.3	2	14	11	5	w.	U. S. Forest Service.	
Garfield.....	Chaffee.....	9,510	2									0.46		0.37	4.5	4	20	6	4	w.	Lloyd N. Felton.
Hamps.....	Elbert.....	5,400	19	38.5	+2.4	75	9	-2	27	54	0.12	-0.12	1.3	2	21	5	4	n.	W. Hamp.		
Hermit Lake.....	Custer.....	10,000	2									0.26		0.16	4.0	2	25	5	0	sw.	John E. Graham.
Hoehne (near).....	Las Animas.....	5,700	20	42.6	+0.8	78	9	0	27	52	0.38	-0.27	0.35	T.	2	22	8	0	w.	S. W. De Busk.	
Holly.....	Prowers.....	3,350	17	42.6	-0.2	62	8	20	28	34	0.75	-0.12	0.50	T.	1	26	8	2	n.	Holly Sugar Co.	
Lake Moraine.....	El Paso.....	10,265	18	29.8	+0.6	52	9†	-4	27	43	0.17	-0.68	0.12	4.0	2	14	10	6	sw.	Clyde C. McReynolds.	
Lamar.....	Prowers.....	3,592	22	43.1	+0.8	78	9	9	27	47	0.10	-0.37	0.10	1.0	1	28	2	0	ne.	J. T. Lawless.	
Las Animas.....	Bent.....	3,899	44																F. M. Tague.		
La Veta Pass.....	Costilla.....	9,000	2									0.11		0.11	2.0	1	23	5	2	w.	Clara M. Wright.
Leadville.....	Lake.....	10,248	16	27.3	+0.2	55	18	-2	1	43	0.21	-0.55	0.20	4.9	3	15	12	3	n.	U. S. Weather Bureau.	
Limon (near).....	Elbert.....	5,360	5	38.7		73	9	-1	27	56	0.12		0.12	0.2	2	22	4	4	s.	F. L. Palmer.	
Madrid.....	Las Animas.....											0.09		0.08	1.0	3			Thos. Sawers.		
Marshall Pass.....	Saguache.....	10,846	9									0.59		0.38	6.0	2	19	7	4		W. L. Williams.
Maxey.....	Baca.....											0.65		0.65	T.	1	21	8	1	sw.	L. H. Alberti.
Monument.....	El Paso.....	7,200	1																U. S. Forest Service.		
North Lake.....	Las Animas.....	8,700	20									0.07	-1.16	0.04	0.5	2	25	4	1	nw.	James W. Ingmire.
Pueblo.....	Pueblo.....	4,734	24	41.5	+2.2	77	9	8	27	57	T.	-0.37	T.	0	0	20	10	0	nw.	U. S. Weather Bureau.	
Rocky Ford (near).....	Otero.....	4,177	23	41.5	+1.7	78	9	11	27	56	0.00	-0.48	0.00	0	0	26	2	2	w.	P. K. Blinn.	
St. Elmo.....	Chaffee.....	9,500	3									0.16		0.13	2.5	2	23	6	2	sw.	Daniel Clark.
Salida.....	do.....	7,035	13	34.4	-2.9	63	9†	3	27	50	0.15	-0.57	0.15	T.	1	27	3	0	n.	M. D. L. Buell.	
Santa Clara.....	Huerfano.....	8,252	17	39.6	+3.7	71	9	-4	27	42	0.36	-0.66	0.14	2.8	3	17	13	0	sw.	Lincoln G. Morris.	
Sheridan Lake.....	Kiowa.....	4,065	10																Howard Gamble.		
Stonewall.....	Las Animas.....	8,000	6									0.00		0.00	0	0	19	4	7	e.	G. A. Story.
Trinidad.....	do.....	5,994	16	42.2		75	9	0	27	45	0.63	-0.26	0.36	1.0	3	21	8	1	w.	Walter Dearden.	
Two Buttes.....	Baca.....	4,100	1	45.9		82	9	10	27	47	0.35		0.25	1.0	2	14	16	0	sw.	N. G. Jones.	
Two Buttes Reservoir.....	do.....											0.47		0.45	0.5	2			sw.	W. J. Krohne.	
Victor.....	Teller.....	10,100	8	34.1		52	18	6	27	30	T.		T.	T.	0	28	2	0	w.	Fred Jones.	
Villas.....	Baca.....	3,935	21								0.00	-0.57	0.00	0	0	25	5	0	sw.	Carrie Konkel.	
Wayne.....	El Paso.....	1																	j. c. Groff.		
Westcliffe.....	Custer.....	7,864	18	35.2	+2.6	66	9	-3	27	58	0.03	-0.85	0.03	1.0	1	15	10	5	nw.	Zack Jordan.	
Winfield.....	Chaffee.....	9,765	2									0.14		0.14	2.8	5	13	12	5	w.	John G. Payne.
Woodman Sanatorium.....	El Paso.....	1	41.4			70	9	2	27	41	0.46		0.20	2.5	5	23	6	1	nw.	Dr. J. E. White.	
Wortman.....	Lake.....	11,250	11																Geo. C. Wortman.		
<i>New Mexico.</i>																					
Abbott.....	Mora.....	5,771	3			75	9†				0.00		0.00	0	0	27	3	0	w.	Agent E. P. & S. W. R. R.	
Aurora.....	Union.....	4,700	22	45.8	-0.8	83	13	12	30	64	0.00	-0.67	0.00	0	0	30	0	0	w.	Martin De Smet.	
Bell Ranch.....	Colfax.....	8,849	3								0.10		0.06	1.6	2	12	16	2	sw.	Miss J. Lucero.	
Black Lake.....	San Miguel.....	4,500	13	44.4		82	9	9	27	58	0.00	-0.95	0.00	0	0	19	8	3	sw.	C. M. O'Donel.	
Cabeza.....	Colfax.....	8,348	3								0.36		0.29	3.9	2	16	12	2	w.	Ralph T. Martinez.	
Campana.....	San Miguel.....	5,406	3								0.00		0.00	0	0	24	6	0	sw.	Agent E. P. & S. W. R. R.	
Chacon.....	do.....	4,493	3	46.6		70	7†				0.00		0.00	0	0	15	14	1	sw.	Do.	
Cimarron (near).....	Mora.....	9,000	3			80	9	12	27	44	0.00		0.00	0	0	22	4	4	e.	Alfredo Lucero.	
Curry.....	Colfax.....	6,385	8	40.7		75	9	4	27	57	0.00		0.00	0	0	26	1	3	sw.	William French.	
Curvo.....	Curry.....	4,129	1	46.7		75	7	12	16	46	0.00		0.00	0	0	20	10	0	sw.	John H. Barry.	
Dawson.....	Guadalupe.....	4,849	3	46.2		75	9	25	21†	35	0.00		0.00	0	0	23	5	2	sw.	Agent E. P. & S. W. R. R.	
Elizabethtown.....	Colfax.....	6,396	3	38.6		74	8	6	27†	46	0.00		0.00	0	0	20	10	0	sw.	Do.	
Folsom.....	do.....	8,465	7	30.2		61	9	-9	27	59	0.22		0.22	3.0	1	23	5	2	nw.	Miss M. Carrington.	
Fort Union.....	Union.....	6,399	12	40.5	+1.2	74	9	-1	27	46	0.99	+0.07	0.94	4.0	2	27	3	0	w.	David Rope.	
Hayden.....	Mora.....	6,835	52	39.2	-1.2	74	9	-2	27	54	0.00	-0.68	0.00	0	0	29	0	1	sw.	M. C. Needham.	
Hoosier Ranch.....	Union.....	4,444	2	43.8		76	10	8	27	46	0.03		0.00	0	0	22	7	1	sw.	James B. Dickson.	
Johnsons Park.....	Mora.....											0.00		0.00	0	0	21	9	0	w.	W. H. Guthman.
Johnsons Ranch.....	Colfax.....	6,722	3									0.04		0.04	0.5	1	21	7	2	sw.	A. J. Meloche, Jr.
Kappus.....	Mora.....	5,784										0.00		0.00	0	0	30	0	0	w.	J. W. Johnson.
Lake Alice.....	Colfax.....	4,010											T.	T.					e.	Anthony Kappus.	
Logan.....	Colfax.....	7,160	3									0.55		0.36	9.0	2	12	18	0	sw.	Jesse Rickman.
Lytkins (near).....	Quay.....	3,851	6	45.2		83	8	8	27	55	0.00		0.00	0	0	28	1	1	sw.	John B. Reneau.	
Maxwell (near).....	Roosevelt.....	5,000	2									0.00		0.00	0	0	28	1	1	sw.	J. G. Buchanan.
Melrose.....	Colfax.....	5,894	5									0.00		0.00	0	0	28	1	1	sw.	Dan N. Jackson.
Miami Ranch.....	Colfax.....	6,000	4	39.6		73	9	1	27	54	0.00		0.00	0	0	24	6	0	s.	Dr. B. M. Porter.	
Mills (near).....	Mora.....	5,985	1									0.00		0.00	0	0	28	1	1	sw.	Farmers Development Co.
Montoya.....	Quay.....	4,335	3									0.00		0.00	0	0	28	1	2	w.	J. E. La Rue.
Mount Dora (near).....	Union.....	5,600	1									0.00		0.00	0	0	27	1	2	sw.	Agent E. P. & S. W. R. R.
Nara Visa.....	Quay.....	4,225	6									0									

TABLE 1.—Climatological data for November, 1912. District No. 7—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.							Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmetted.	Number of rainy days, 0.1 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of overcast days.				
<b>Texas.</b>																						
Amarillo.	Potter.	3,676	20	46.9	+ 3.1	78	10	13	27	42	0.02	- 1.14	0.02	0.2	1	23	6	1	sw.	U. S. Weather Bureau.		
Archer City.	Archer.	1									0.72	- 2.43	0.45	0	2	23	7	0	s.	Charles H. Thurman.		
Arthur City.	Lamar.	590	20	53.9		79	8	24	28	42	0.83		0.40	0	1	18	0	12	s.	C. A. Lowrey.		
Bonham.	Fannin.	566	9										0.77	0	2	24	1	5	s.	H. M. Norman.		
Canadian.	Hemphill.	2,339	5																s.	J. M. Shaw.		
Childress.	Childress.	1,869	19																s.	George Baker.		
Chillicothe.	Hardeman.	1,406	4																s.	A. B. Connor.		
Clarendon.	Donly.	2,719	7	48.4		82	10	19	27	49	0.04		0.10	0	1				nw.	Whitfield Carhart.		
Clarksville.	Red River.	442	12	54.2	- 2.1	80	6	30	30	38	1.30	- 2.16	1.30	0	1	23	7	0	nw.	J. W. O'Neill.		
Claude.	Armstrong.	3,397	7			79	9	7	27	59			0.02		0	1	20	3	s.	Ft. W. & D. C. Ry.		
Dalhart.	Dallam.	3,998	7	42.6									0.95	- 1.60	0.70	0	2	19	3	s.	W. D. Griggs.	
Denison.	Grayson.	12											1.00		1.00	0	1	23	0	s.	J. L. Wilson.	
Finley.	Bowie.	2											0.95	- 1.35	0.35	0	2	25	1	s.	Robert L. Smith.	
Henrietta.	Clay.	915	20	53.9	+ 1.8	80	11	27	26	39	0.70	- 1.35	0.20	2.0	0	1	26	1	s.	C. K. Brown.		
Memphis.	Hall.	2,067	7	49.1		75	9	30	27	32	0.00		0.00	0	0	29	0	1	s.	Ft. W. & D. C. Ry.		
Miami.	Roberts.	2,743	6	49.2		80	10	12	27	47	0.20								s.	J. E. Kinney.		
Ochiltree.	Ochiltree.	4																	s.	S. J. Allen.		
Panhandle.	Carson.	3,450	3																s.	J. Sid O'Keefe.		
Paris.	Lamar.	592	23	51.9	- 2.9	79	11	21	28	40	0.79	- 2.05	0.65	0	2	18	2	10	n.	Robert A. Miller.		
Plemons.	Hutchinson.	5		44.0		82	10	8	27	54	0.09		0.09	1	1	28	0	2	s.	C. S. Solomon.		
Quanah.	Hardeman.	1,563	10	48.8		77	10	28	24	39	0.00	- 1.28	0.00	0	0	14	15	1	n.	William H. Crawford.		
Ringo Crossing.	Hopkins.	2											0.75		0.50	0	2	17	4	s.	H. J. Palmer.	
Romero.	Hartley.	2		61.1		80	9	10	27	50	T.		T.		T.	0	24	6	s.	R. S. Chamberlain.		
Sherman.	Graysen.	745	19	53.8	+ 0.2	76	11	31	2	33	1.18	- 1.35	0.61	0	0	18	6	6	s.	R. A. Gibbs.		
Stratford.	Sherman.	3,699	44.2			83	11	7	27	54	0.10		0.10	1.0	1	26	2	2	s.	J. W. Elliott.		
Texline.	Dallam.	4,964	7																nw.	Ft. W. & D. C. Ry.		
Tulia.	Swisher.	3,501	14	46.6	- 1.5	80	10	14	27	51	T.	- 1.80	T.	T.	T.	0	22	6	s.	Lou Mulhall.		
Wellington.	Collingsworth.										0.17		0.15	0.2	2				s.	J. D. Camp.		
Wichita Falls.	Wichita.	958	20								0.17		0.17	0	1	15	15	0	nw.	E. F. Mittmann.		
Winfield.	Titus.	2																	s.	J. B. Newberry.		
<b>Kansas.</b>																						
Alden.	Rice.	1,684	2									T.		T.	T.	0	24	3	3	nw.	L. B. Wait.	
Anthony.	Harper.	1,329	15	48.6		80	10	18	25	45	0.09	- 0.89	0.07	0.5	2	21	8	1	s.	R. H. Beebe.		
Ashland.	Clark.	1,951	24	47.6	+ 4.3	86	10	11	28	54	- 0.21	- 0.60	0.16	0.2	3	26	2	2	s.	C. W. Carson.		
Burlington.	Coffey.	1,010	19	45.4	+ 1.1	74	9	17	25	45	0.19	- 1.12	0.19	0	1	4	23	3	s.	O. E. Sanford.		
Chanute.	Neosho.	940	8	47.6		76	10	22	2	41	1.28		0.95	0	2	0	29	1	s.	C. W. Brown.		
Cimarron.	Gray.	2,700									0.25		0.25	2.5	2	2	3	2	s.	C. C. Isely.		
Coffeyville.	Montgomery.	747	2								0.47		0.47	T.	1	17	7	6	s.	A. F. Briggs.		
Coldwater.	Comanche.	2,090	15	47.0	+ 3.2	82	10	16	27	45	0.03	- 0.70	0.03	1.0	1	26	1	3	s.	J. L. Stanley.		
Columbus.	Cherokee.	898	22	46.2	+ 0.7	72	10	19	25	33	1.26	- 1.07	0.65	0	3	24	4	2	s.	O. E. Skinner.		
Coolidge.	Hamilton.	3,348	15	41.5	+ 1.4	83	10	4	27	56	0.26	- 0.35	0.19	0.30	0.5	2	23	7	0	s.	W. R. Padley.	
Cottonwood Falls.	Chase.	1,234	8	46.4		75	9	18	25	41	0.28		0.16	0	2	22	4	4	s.	E. B. Greene.		
Council Grove.	Morris.	1,234	3	46.8		74	9	18	24	38	1.14		1.10	0	2	20	6	4	s.	J. P. Blackledge.		
Cunningham.	Kingman.	1,680	28	46.5	+ 0.3	80	10	16	27	48	0.27	- 0.56	0.17	1.8	2	18	10	2	s.	W. H. Morton.		
Dodge City.	Ford.	2,513	38	45.0	+ 4.5	81	9	14	27	45	0.26	- 0.29	0.21	0.5	2	21	7	2	s.	U. S. Weather Bureau.		
Eldorado.	Butler.	1,291	10	46.4		74	9	19	25	39	0.13		0.13	0	1	25	3	2	s.	W. Y. Miller.		
Ellinwood.	Barton.	1,790	37	46.1	+ 3.7	79	10	14	27	47	0.21	- 0.64	0.11	1.0	2	14	15	1	s.	Martin Musil.		
Emporia.	Lyon.	1,138	31	46.6	+ 2.9	75	9†	19	24	38	0.68	- 0.61	0.58	0	2	19	9	2	s.	W. H. Boyles.		
Eureka.	Greenwood.	1,079	16	44.8		76	10	18	25	44	0.15	- 1.65	0.15	0	1	21	5	0	s.	Mrs. T. C. Peifer.		
Fall River.	do.	925	16	46.6	+ 0.7	76	9	21	27	45	0.25	- 1.54	0.15	0	2	25	5	0	s.	J. McDaniel.		
Fargo.	Seward.	2																	s.	N. B. Swink.		
Frederia.	Wilson.	975	9	48.0		75	10	22	24	36	0.76		0.66	0	2	23	2	5	s.	B. W. Holmes.		
Garden City.	Finney.	2,836	23	43.1	+ 0.1	84	10	7	27	53	0.29	- 0.35	0.11	2.0	3	25	1	4	s.	B. F. Stocks.		
Great Bend.	Barton.	1,850	3										0.31		0.19	2.5	2	21	8	1	s.	I. Pritchard.
Greensburg.	Kiowa.	2,235	5	46.5		80	10	15	27	42	0.04		0.03	T.	2	26	0	4	s.	C. C. Raymond.		
Grenola.	Elk.	1,116	24	47.4	+ 2.4	76	9	18	25	41	0.42	- 1.33	0.35	T.	2	21	5	4	s.	W. H. Lawyer.		
Hess.	Gray.	6																	s.	Harry Jacques.		
Howard.	Elk.	1,112	5	46.8		78	6	18	25	41	0.38		0.38	0	1	21	6	3	s.	J. W. Eby.		
Hugoton.	Stevens.	8																	s.	F. A. McCoy.		
Hutchinson.	Reno.	1,535	22	46.0	+ 1.1	76	9†	19	24	48	T.	- 0.72	T.	T.	0	24	5	1	s.	Sheridan Plough.		
Independence.	Montgomery.	800	38	47.8	+ 1.8	77	10	19	25	40	1.66	- 0.28	1.66	0	2	21	4	5	s.	F. L. Kenoyer.		
Iola.	Allen.	984	6	45.8	+ 2.8	75	10	19	25	38	0.26	- 1.12	0.26	0	2	23	2	5	s.	U. S. Weather Bureau.		
Irene.	Hamilton.	3,440	2	43.4		89	10	1	27	59	0.64		0.59	0.5	2	22	6	2	nw.	N. M. Herbig.		
Jetmore.	Hodgeman.	2,268	11	44.6		82	10	11	27	51	0.58	- 0.07	0.48	1.0	1	26	10	4	s.	James Alken.		
Kingman.	Kingman.	1,504	4	47.0		78	10	19	25	41	0.12		0.12	1.0	1	18	11	1	s.	B. B. Anawalt.		
La Crosse.	Rush.	2,061	10	42.6		81	9	10	27	52	0.84	- 0.07	0.45	3.5	3	23	4	3	s.	Rodney Torrey.		
Lakin.	Kearny.	2,993	22	41.6	- 0.7	82	10	5	27	57	0.10	- 0.42	0.10	2.0	1	24	6	0	ne.	C. H. Longstreth.		
Larned.	Pawnee.	2,090	27	45.8		80	9†	13	27	47	0.33	- 0.63	0.25	3.0	2	24	3	3	s.	H. H. Wolcott.		
Lebo.	Coffey.	1,138	26	46.0	+ 3.1	73	9†	19	27	53	0.73	- 0.90	0.73	0	1	23	3	4	s.	J. J. Bowman.		
Liberal.	do.	990	3										0.38		0.20	T.	2	23	2	5	s.	F. W. Schmitt.
Macksville.	Seward.	2,843	5	45.8		84	10	12	27	54	0											

TABLE 1.—Climatological data for November, 1912. District No. 7—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Greatest in 24 hours.	Total snowfall unmetted.	Number of rainy days 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>Oklahoma.</i>																				
Ada.	Pontotoc.	1,001	4	52.0	.....	77	9	25	27	0.64	.....	0.56	0	3	22	4	4	s.	W. S. Creveling.	
Alva.	Woods.	1,350	7	48.4	.....	80	9	14	30	49	T.	0.17	0	0	19	10	1	s.	S. A. Stech.	
Apache.	Caddo.	1,255	2	49.3	.....	77	9	19	25	44	0.31	0.17	0	0	3	26	3	s.	G. D. Teeter.	
Arapaho.	Custer.	1,575	18	49.24	+ 0.7	76	8	25	28	42	T.	1.87	0	0	29	1	0	s.	J. G. Brower.	
Ardmore.	Carter.	872	10	52.6	- 1.2	77	9	25	28	35	2.37	- 0.44	1.90	0	2	20	7	3	s.	H. T. Nistbett.
Arnett.	Ellis.	2,136	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	s.	C. H. Holmes.	
Bartlesville.	Washington.	687	4	49.3	.....	79	9	20	25	39	0.41	0.41	0	1	24	1	5	s.	Dr. A. P. Owens.	
Beaver.	Beaver.	2,500	15	46.2	+ 1.3	83	10	14	27	50	0.20	- 0.99	0.20	2.0	1	23	5	2	sw.	W. C. Frazer.
Blackburn.	Pawnee.	800	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	n.	M. M. Rhodes.	
Cache.	Comanche.	1,350	6	47.6	.....	76	10	14	28	48	0.34	0.20	0	2	25	4	1	s.	Mrs. Frank Rush.	
Calvin.	Hughes.	713	7	.....	.....	8	8	20	25	45	1.10	- 0.31	1.10	0	0	24	1	5	s.	Thomas Purcell.
Chandler.	Lincoln.	865	10	50.8	- 0.7	78	8	20	25	45	1.10	- 0.31	0.00	0	0	27	3	0	s.	Chas. L. Kern.
Chattanooga.	Comanche.	1,150	6	53.0	.....	75	9	25	27	39	0.00	0.00	0	0	0	0	0	n.	Squire Humble.	
Chickasha.	Grady.	1,091	10	51.1	- 1.1	79	8	18	25	49	1.15	- 2.16	0.15	0	0	28	1	1	n.	J. C. Good.
Cloud Chief.	Washita.	1,400	10	50.4	- 0.1	78	9	20	25	42	0.23	- 2.07	0.15	T.	2	22	8	0	s.	J. P. Stutzman.
Crawford.	Roger Mills.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	n.	W. W. Blackburn.	
Durant.	Bryan.	643	10	51.5	- 2.3	78	11	20	25	40	1.33	- 1.06	0.98	0	3	22	5	3	n.	Nelson Houk.
Eldorado.	Jackson.	1,456	5	51.2	.....	78	9	23	26	42	0.00	0.00	0	0	0	27	2	1	se.	T. W. Lanham.
Elk City.	Beckham.	.....	.....	.....	.....	80	23	20	25	45	T.	0	0	0	23	4	3	s.	R. J. Carlile.	
El Reno.	Canadian.	1,400	20	52.0	+ 2.6	78	10	24	25	43	0.04	- 1.96	0.04	0	1	20 <sup>c</sup>	7 <sup>e</sup>	0 <sup>f</sup>	n.	Rose E. Walker.
Enid.	Garfield.	1,289	10	50.7	+ 1.3	75	18	20	25	44	0.36	- 1.82	0.20	T.	3	22	5	3	s.	Uri B. Worcester.
Erick.	Beckham.	2,058	7	49.8	.....	79	9	20	25	45	T.	0	0	0	27	2	1	s.	A. W. Hanes.	
Eufaula.	McIntosh.	566	.....	50.0	.....	76	8	25	25	41	0.96	0.85	0	0	18	5	7	s.	R. Uhl Brown.	
Fairland.	Ottawa.	839	12	49.4	- 1.1	77	9	20	25	39	1.96	- 0.73	1.96	0	2	19	3	8	s.	C. W. Prier.
Fort Gibson.	Muskogee.	556	7	.....	.....	77	9	20	25	46	T.	0	0	0	25	3	2	sw.	John T. Welsh.	
Frederick.	Tillman.	1,293	5	51.4	.....	79	11	22	26	43	0.02	0.02	0	0	1	25	3	2	nw.	B. B. Bradley.
Geary.	Blaine.	1,546	.....	50.2	.....	76	9	22	25	36	0.17	0.11	0.2	0	23	6	1	sw.	O. P. Ruth.	
Goodwell.	Texas.	3,300	1	45.8	.....	82	10	6	27	50	0.26	0.20	0	0	2	25	3	2	s.	S. W. Black.
Guthrie.	Logan.	1,000	19	50.3	- 0.4	80	9	18	20	44	T.	- 2.38	T.	0	0	27	2	1	n.	S. E. Snyder.
Guymon.	Texas.	3,133	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	s.	A. L. Mordt.	
Hartshorne.	Pittsburg.	700	13	54.0	- 1.7	79	5	22	25	40	0.92	- 2.48	0.47	0	2	23	4	3	s.	Frank Webber.
Healdton.	Carter.	900	18	51.7	- 1.6	79	9	21	23	47	1.15	- 1.30	1.15	0	1	23	7	0	s.	C. H. Heald.
Helena.	Alfalfa.	1,396	4	49.2	.....	80	10	21	25	47	0.13	0.10	1.0	0	2	21	7	2	n.	J. G. McCall.
Hennessey.	Kingfisher.	1,166	17	48.44	- 1.8	75	20	20	24	40	T.	- 1.79	T.	0	0	17	6	0	n.	Mrs. M. C. Parks.
Hobart.	Kiowa.	1,396	9	49.8	.....	78	9	25	28	38	0.13	0.13	T.	1	23	7	0	s.	Rev. J. E. Black.	
Holdenville.	Hughes.	900	11	50.8	- 1.8	78	16	24	25	39	1.20	- 1.43	0.75	0	2	25	4	1	s.	Eula L. Rutherford.
Hooker.	Texas.	3,038	6	44.9	.....	83	10	6	27	56	0.05	0.25	0.5	1	23	2	5	s.	H. N. Kelly.	
Hurley.	Cimarron.	4,200	4	41.4	.....	85	11	10	27	56	T.	0	0	0	10	19	1	n.	Dr. C. W. Meyers.	
Idebel.	McCurtain.	474	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	s.	M. L. Henderson.	
Jefferson.	Grant.	1,062	18	47.7	+ 1.0	79	9	16	25	47	0.04	- 1.45	0.04	T.	1	23	6	1	n.	T. E. Beck.
Kenton.	Cimarron.	4,000	11	44.5	- 0.4	84	9	20	27	56	0.13	- 0.45	0.11	0.2	0	21	11	7	s.	Wm. H. Guy.
Kingfisher.	Kingfisher.	1,046	14	49.8	- 0.6	79	9	19	25	46	0.72	- 1.39	0.40	0	5	21	7	2	s.	J. C. Cross.
Lawton.	Comanche.	1,111	4	45.3	.....	80	12	20	25	42	0.02	0.02	0.02	0	1	22	7	1	n.	F. C. Davis.
McAlester.	Pittsburg.	698	15	53.4	.....	78	8	25	26	36	1.35	- 1.50	1.16	0	3	22	0	8	s.	Wm. Noble.
Mangum.	Greer.	1,585	19	49.8	- 0.9	80	11	23	28	47	0.78	- 0.85	0.75	0	2	24	3	3	s.	F. D. Dodson.
Marlow.	Stephens.	1,292	11	50.8	- 1.1	77	9	27	21	38	0.45	- 2.37	0.35	0	21	24	3	3	n.	Wm. B. Anthony.
May.	Harper.	.....	.....	.....	.....	77	11	19	25	38	0.00	- 2.13	0.00	0	0	24	2	4	s.	G. C. Gray.
Meeker.	Lincoln.	1,030	18	47.6	- 2.2	77	11	19	25	38	0.00	0.02	0.2	0	2	24	5	1	s.	Dr. J. H. Baugh.
Muskogee.	Muskogee.	614	13	50.8	- 1.3	77	9	23	28	38	1.10	- 1.36	1.10	0	1	21	1	8	s.	J. Harry Randall.
Mutual.	Woodward.	4	48.4	.....	.....	80	9	18	27	47	T.	0	0	0	24	4	2	s.	Thos. Martin.	
Neola.	Caddo.	1,500	6	49.6	.....	76	9	20	28	39	0.11	0.07	T.	2	27	3	0	s.	R. N. Schooling.	
Newkirk.	Kay.	1,149	14	48.4	- 0.4	75	25	25	34 <sup>a</sup>	40	0.97	- 0.78	0.97	T.	1	21	5	4	s.	P. H. Albright & Co.
Norman.	Cleveland.	1,171	17	49.8	- 0.9	77	9	19	25	42	1.92	- 0.62	1.90	0	2	21	8	1	s.	S. E. Boyd.
North Muskogee.	Muskogee.	.....	.....	.....	.....	75	9	18	25	42	2.99	1.31	0.02	0	2	23	0	7	s.	J. E. Walker.
Oakwood.	Dewey.	1,854	2	47.6	.....	75	9	18	25	42	0.03	0.02	0.2	0	2	24	5	1	s.	Dr. F. P. Osborn.
Okeeme.	Blaine.	1,194	7	49.8	.....	77	9	20	25	43	0.12	0.06	0.1	0	3	23	7	0	s.	Dr. L. H. Murdoch.
Okehema.	Okfuskee.	51.4	.....	.....	.....	75	8	23	25	37	1.60	1.50	0	0	2	24	6	3	s.	S. F. Smith.
Oklahoma.	Oklahoma.	1,247	22	50.0	+ 2.1	76	9	25	33	39	1.86	1.38	T.	2	21	6	3	s.	U. S. Weather Bureau.	
Okmulgee.	Okmulgee.	752	7	53.6	.....	84	14 <sup>b</sup>	22	25 <sup>c</sup>											



TABLE 1.—Climatological data for November, 1912. District No. 7—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>Mississippi.</i>																					
Anguilla.....	Sharkey.....	107	4	51.8	-2.3	83	1	21	28	46	0.55	0.34	T.	5	24	2	4	ne.	E. W. Cook.		
Austin.....	Tunica.....	200	16	50.0	-2.3	77	11	21	25 <sup>†</sup>	42	2.13	-3.45	T.	3	22	6	2	nw.	H. J. Irvine.		
Batesville.....	Panola.....	230	25	49.6	-1.8	78	10 <sup>†</sup>	21	28	42	1.36	-2.35	T.	4	24	0	6	w.	J. M. Cox.		
Big Creek.....	Cahoun.....	2																	J. P. Havens.		
Canton.....	Madison.....	228	22	53.0	-2.6	81	10 <sup>†</sup>	23	25	44	0.75	-2.34	T.	4	15	11	4	se.	Dr. G. W. Smith-Vanziz.		
Charleston.....	Tallahatchie.....	2	52.2			84	1	17	28	58	1.17		T.	4	18	6	6	s.	W. B. Burke.		
Clarksdale.....	Coahoma.....	177	5	49.0		76	8 <sup>†</sup>	22	25 <sup>†</sup>	46	1.42		T.	5	15	5	10	s.	A. C. Tuttle.		
Cleveland.....	Bolivar.....	160	1																W. W. Boone.		
Coffeeville.....	Yalobusha.....	241	3																C. K. Bailey.		
Corinth.....	Alcorn.....	470	24	47.4	-3.1	76	10	20	28	44	1.45	0.90	T.	5	22	6	2	s.	M. A. Candler.		
Crenshaw.....	Panola.....	187	3																Mrs. A. L. Fitzgerald.		
Duck Hill.....	Montgomery.....	13	53.6	-0.6	78	10	22 <sup>†</sup>	19	49 <sup>†</sup>	1.05	-1.97	0.70	T.	2					W. H. Eskridge.		
Edwards.....	Hinds.....	222	25	52.8	-3.8	82	10	26	31	42	1.75	-1.50	0.60	2.0	3	21	5	n.	E. F. Farr.		
Fayette.....	Jefferson.....	270	11	53.2	-2.9	81	9 <sup>†</sup>	24	31	46	1.42	-2.95	0.45	0.5	4	20	7	3	nw.	T. L. Darden.	
Greenville.....	Washington.....	126	25	51.8	-2.5	79	11	25	28	43	2.01	-1.68	1.07	T.	5	20	2	2	sw.	F. L. Harbison.	
Greenwood.....	Leflore.....	140	12	50.2	-3.7	80	10	22	28 <sup>†</sup>	47	1.08	-2.41	0.43	T.	4	20	7	3	se.	J. H. Stephen.	
Grenada.....	Grenada.....	194	3																E. A. Jones.		
Hernando.....	De Soto.....	391	24	50.6	-1.2	76	11	22	28	39	1.37		T.	5	20	5	5	s.	W. F. Wood.		
Hickory Flat.....	Benton.....	435	3																H. Powell.		
Holly Springs.....	Marshall.....	600	25	48.2	-2.0	75	11	24	28	32	1.08	-2.71	0.67	T.	6	24	3	3	e.	L. B. Mosby.	
Kosciusko.....	Attala.....	430	22	50.2	-3.7	79	10	23	25 <sup>†</sup>	46	1.72	-1.25	0.82	T.	3	20	3	3	se.	E. L. Lucas.	
Malone.....	Marshall.....	3																	M. J. Wilkins.		
Marks.....	Quitman.....	163	3																T. P. Banister.		
Natchez.....	Adams.....	206	24	52.1	-6.4	80	11	27	4 <sup>†</sup>	47	1.07	-3.05	0.45	T.	4	14	0	16	n.	F. L. Garrity.	
New Albany.....	Union.....	398	3																H. Marshall.		
Pontotoc.....	Pontotoc.....	475	23	50.0	-2.5	76	10 <sup>†</sup>	21	28	40	0.30	-3.14	0.20	1.0	2	16	12	2	se.	Dr. C. W. Bolton.	
Port Gibson.....	Clarke.....	116	24	50.5	-5.4	80	10	22	29	45	1.85	-1.71	1.01	T.	5	20	4	6	e.	H. H. Crisler.	
Rosedale.....	Bolivar.....	143	4	48.8		79	11	20	25 <sup>†</sup>	47	1.75		0.95	T.	3	19	0	11	nw.	T. J. Murray.	
Senatobia.....	Tate.....	284	3																C. Brickell.		
Shoecoe.....	Madison.....	9	51.6			81	10	25	31	44 <sup>†</sup>	1.00	-1.19	0.47	1.0	3	23	4	3	n.	J. C. Pitchford.	
Suffolk.....	Franklin.....	11	55.0	-4.4	79	10 <sup>†</sup>	27	3	39	42	0.60	-0.72	0.28	T.	4	18	7	5	n.	Prof. G. H. Kent.	
Swan Lake.....	Tallahatchie.....	145	7																Dr. S. D. Robinson.		
Tchula.....	Holmes.....	130	7			80	10 <sup>†</sup>	21	25										Dr. M. P. Winkler.		
University.....	Lafayette.....	502	19	49.4	-3.3	72	11 <sup>†</sup>	23	28	31	1.54	-2.31	0.57	T.	4	21	2	7	n.	Prof. J. H. Dorroh.	
Utica.....	Hinds.....	287	8	53.6		83	10	24	3	45	1.52		0.78	1.0	6	24	1	5	nw.	Dr. J. B. Dudley.	
Vicksburg.....	Warren.....	247	41	54.5	-1.4	78	11	27	28	31	0.65	-3.54	0.25	T.	4	18	6	6	se.	U. S. Weather Bureau.	
Water Valley.....	Yalobusha.....	300	23	50.1	-2.8	78	11	21	24 <sup>†</sup>	42	0.87	-2.72	0.40	T.	3	20	5	5	ne.	Miss Loule Erikson.	
Woodville.....	Wilkinson.....	560	19	56.6	-1.4	82	9	26	28	40	0.86	-2.90	0.58	T.	3	24	6	0	n.	James E. Lee.	
Yazoo City.....	Yazoo.....	116	18	52.2	-2.8	81	7 <sup>†</sup>	24	25 <sup>†</sup>	50	0.91	-2.07	0.31	T.	3	24	0	6	nw.	W. H. Courts.	
<i>Louisiana.</i>																					
Abbeville.....	Vermilion.....	18	24	57.4	-3.5	83	12	28	28	38	1.63	-1.80	1.07	0	4	19	7	4	n.	C. J. Edwards.	
Alexandria.....	Rapides.....	77	24	53.6	-3.4	80	6 <sup>†</sup>	24	28	41	0.70	-3.59	0.50	T.	2	17	2	11	n.	Nellie Graham.	
Amite.....	Tangipahoa.....	130	24	54.6	-3.9	83	13	25	29	45	2.75	-0.59	1.10	T.	3	10	17	3	n.	Lulu M. Wentz.	
Antioch.....	Claiborne.....			53.8		84	1	22	28	43 <sup>†</sup>	1.32		1.22	T.	2	22	0	8	n.	W. L. Anglin.	
Avoca Island.....	St. Mary.....	9	1																J. N. Pharr & Sons (Ltd.).		
Baton Rouge.....	East Baton Rouge.....	60	24	59.2	-0.4	83	12	30	28	39	0.68	-4.02	0.44	0	4	15	1	14	ne.	Elmo M. Bott.	
Burnside.....	Ascension.....	20	12	57.5	-3.0	84	12	29	31	41 <sup>†</sup>	1.65	-0.78	0.70	0	4	15	5	10	n.	C. S. McFarland.	
Burwood.....	Plaquemines.....	1	24	65.1	-1.0	82	5 <sup>†</sup>	44	29	45	2.35	-0.17	0.90	0	5	20	3	7	nw.	Graham Meyers.	
Cades.....	St. Martin.....	2	24	56.5		85	8	23	28	45	0.44		0.18	0	3	23	2	5	n.	C. E. Smedes.	
Calhoun.....	Ouachita.....	180	24	53.4	-1.5	83	13	20	28	49	0.48	-3.36	T.	3	15	8	7	ne.	N. La. Experiment Station.		
Cameron.....	Cameron.....	6	19	54.3	-7.7	81	6	23	28	43 <sup>†</sup>	1.13	-2.78	0.83	0	4	17	11	2	se.	Adolph Bruckert.	
Carrolton.....	Carrolton.....	7	1	56.7		82	12	30	39	58 <sup>†</sup>	2.91		2.31	0	5	24	0	6	n.	Loyola College.	
Cheneyville.....	Rapides.....	67	24	55.6	-2.0	84	11	25	3	46	0.95	-2.96	0.75	0	4	19	3	8	n.	Walter I. Tanner.	
Cinclare.....	West Baton Rouge.....	2	24	55.8		83	12	26	27	42	0.55		0.40	0	2	12	4	14	n.	Cinclare Central Factory.	
Clinton.....	East Feliciana.....	113	24	55.6	-2.8	81	9 <sup>†</sup>	26	29	42	1.00	-1.95	0.44	T.	1	17	2	5	s.	John A. White.	
Collinston.....	Morehouse.....	65	11	53.2	-2.4	88	6	20	23	48	0.30	-3.38	0.30	0	1	23	2	5	s.	John B. Reily.	
Columbia.....	Caldwell.....																		H. W. Blanks.		
Covington.....	St. Tamany.....	39	20	56.8	+ 0.8	83	12	28	29	46	2.89	+ 0.10	1.20	0	7	20	2	8	n.	Cecille P. Champagne.	
Dodson.....	Winn.....	3	24	54.8		83	9 <sup>†</sup>	22	28	42	0.30		0.30	T.	1	17	10	3	w.	J. P. Lucas.	
Donaldsonville.....	Ascension.....	33	24	61.4	0.0	85	11 <sup>†</sup>	32	28	37	2.15	-1.34	0.75	0	5	18	3	9	n.	John F. Park.	
Dutchtown.....	do.....	1									1.50		1.00	0	2	27	1	2	n.	Picard & Geismar (Ltd.).	
Farmerville.....	Union.....	177	24	51.2	-3.9	78	10 <sup>†</sup>	21	28	50 <sup>†</sup>	1.50	-3.17	0.75	T.	2	25	2	3	n.	W. P. Chandler.	
Ferriday.....	Concordia.....	5	24	57.4		79	11	28	31	42	0.55		0.55	T.	1	17	10	3	w.	C. L. Achor.	
Franklin.....	St. Mary.....	10	20	58.0	-3.0	84	11	29	28 <sup>†</sup>	40	0.83	-2.70	0.72	0	5	15	11	4	ne.	J. M. Bonney.	
Franklinton.....	Washington.....	2	24	56.2		82	12	29	31	45	0.92		0.40	0	4	9	9	12	s.	Herbert R. Babington.	
Grand Cane.....	De Soto.....	302	18	47.4	-9.1	79	8	15	29	48	0.54	-3.69	0.20	0	5	12	7	11	s.	G. Foster Provost.	
Grand Coteau.....	St. Landry.....	93	24																St. Charles College.		
Gueydan.....	Vermilion.....	44	20	56.7		80	6	27	28	41	1.01		0.80</								

TABLE 1.—*Climatological data for November, 1912. District No. 7—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.				
<i>Louisiana—Continued.</i>																		
Paradis.	St. Charles.	1	...	...	...	...	...	...	...	1.10	...	0.60	0	3	n.	R. E. Boyce.		
Pearl River.	St. Tamany.	29	6	...	...	...	...	...	...	3.14	...	1.08	0	7	20	4	George F. Banks.	
Plain Dealing.	Bossier.	268	20	53.0	- 2.0	81	12	20	28	42	0.73	- 2.71	0.55	0	3	23	6	Leon Sanders.
Rayne.	Arcadia.	44	20	57.9	- 2.8	88	9†	24	28	43	0.25	- 3.66	0.25	0	1	20	0	A. P. McNeil.
Reserve.	St. John Baptist.	11	58.8	- 0.1	91	12	31	28†	46	1.91	- 0.12	1.65	0	2	22	4	Leon Godchaux Co. (Ltd.).	
Richland Plantation.	Rapides.	54.0	...	...	...	S3	1	23	28	38	0.67	0.43	0	3	26	6	A. B. Pendleton.	
Robeline.	Natchitoches.	147	16	50.7	- 5.6	84	12	18	28†	52	0.80	- 2.70	0.70	0	2	17	2	Ruby McCook.
Ruston.	Lincoln.	312	17	49.1	- 8.3	82	11	25	27	38	0.48	- 3.49	0.30	0	3	24	6	Andor M. Larson.
St. Francisville.	West Feliciana.	115	9	56.4	...	81	1†	26	28	33*	2.30	...	2.10	0	5	13	4	G. W. Newman.
Schriever.	Terrebonne.	17	20	56.7	- 4.4	85	12	28	28	46	0.90	- 1.91	0.40	0	3	16	7	William H. Gautreaux.
Shreveport.	Caddo.	249	41	54.9	- 0.4	80	11	30	28	32	0.50	- 3.58	0.37	0	4	18	9	U. S. Weather Bureau.
Simmesport.	Avoyelles.	42	6	...	...	...	...	...	...	1.09	...	0.96	0	4	8	2	20	C. T. Leigh.
Southern Univ. Farm.	Jefferson.	15	...	...	...	...	...	...	...	2.62	+ 0.02	2.01	0	4	20	6	F. L. St. Martin.	
Sugartown.	Calcasieu.	19	57.0	- 1.5	80	11†	29	28	38	0.30	- 3.62	0.30	0	1	11	19	G. W. Richardson.	
Talulah.	Madison.	91	5	51.7	...	85	1	23	28	42	2.11	...	0.65	T.	6	...	Neal T. Halt.	
Walker.	Livingston.	2	55.8	...	83	5†	25	28†	45	1.20	...	0.65	0	3	14	14	H. C. Fondren.	
Winnboro.	Franklin.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	J. C. Carlton.	

\*, †, ‡, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

\*\* Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

‡ Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for November, 1912. District No. 7, Lower Mississippi Valley.*









TABLE 3.—Maximum and minimum temperatures at selected stations for November, 1912. District No. 7, Lower Mississippi Valley.

Date.	Colorado.						New Mexico.				Texas.				Kansas.								Oklahoma.					
	Lamar.		Leadville.		Pueblo.		Albert.		Cimarron.		Amarillo.		Paris.		Dodge City.		Ellinwood.		Iola.		Liberal.		Wichita.		Ardmore.		Bartlesville.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	69	25	41	-2	50	20	56	24	52	16	49	27	56	38	43	22	40	29	37	23	49	25	38	30	51	35	40	35
2....	68	21	41	7	57	18	62	26	63	19	63	27	54	27	63	18	61	20	50	22	70	16	50	27	50	27	54	24
3....	68	33	31	20	60	34	66	31	52	16	69	34	61	27	67	39	60	39	56	33	72	35	57	35	61	35	58	35
4....	66	26	40	11	57	39	55	27	59	20	67	33	72	32	65	33	68	40	67	45	62	30	64	38	73	48	71	45
5....	58	39	31	10	55	31	51	21	56	32	63	41	68	42	60	37	61	43	65	51	63	35	65	48	70	58	63	50
6....	65	22	41	9	66	20	59	27	64	14	64	32	66	50	63	24	65	26	60	35	63	27	60	37	65	47	64	48
7....	73	32	44	25	71	37	63	31	70	31	73	39	70	38	73	35	75	36	65	31	75	32	64	39	71	36	70	33
8....	66	30	50	25	57	34	63	34	66	32	69	43	78	38	67	41	70	37	65	37	71	33	65	43	76	43	70	40
9....	78	31	49	25	77	31	58	27	75	25	76	39	78	44	81	40	78	38	73	38	81	35	74	46	77	50	79	40
10....	77	34	49	26	69	38	59	19	68	28	78	44	75	47	81	41	79	45	75	54	84	40	73	52	76	50	78	50
11....	72	35	32	21	63	35	68	21	58	30	75	46	79	49	73	43	72	58	70	58	79	54	68	58	76	58	75	55
12....	55	30	34	11	60	31	76	27	58	17	58	35	67	58	54	34	65	36	64	39	67	35	61	39	63	54	61	50
13....	63	27	45	9	59	20	83	30	61	21	67	33	65	43	64	31	65	32	62	33	67	33	63	34	64	40	65	37
14....	68	23	49	16	66	23	62	22	67	27	70	30	78	40	70	32	64	31	56	34	70	32	62	40	75	40	64	38
15....	64	24	45	18	60	26	67	18	61	27	69	34	71	41	69	33	68	31	65	31	69	29	68	37	74	40	65	34
16....	51	31	37	10	48	28	69	19	48	34	48	34	67	42	44	31	58	34	51	33	48	34	50	36	70	42	55	40
17....	60	18	44	9	55	17	74	20	66	22	57	25	64	41	56	20	58	19	55	27	57	22	51	27	61	39	59	35
18....	65	22	55	14	74	17	72	19	64	24	63	30	69	35	71	27	73	29	65	29	74	27	66	32	68	34	70	32
19....	63	20	53	17	65	18	81	23	67	25	67	34	73	35	68	26	73	26	70	38	72	36	66	36	70	42	72	45
20....	64	19	36	17	62	22	76	31	61	12	65	34	73	37	65	41	69	43	68	45	71	34	67	45	71	39	77	45
21....	52	18	37	7	52	28	78	30	51	27	48	33	69	39	52	27	63	29	56	33	54	30	55	37	69	48	56	42
22....	64	21	41	13	70	19	72	21	64	20	65	24	67	47	66	25	63	24	63	25	68	24	61	30	64	43	65	29
23....	60	21	42	13	57	22	68	20	65	25	60	33	70	34	60	27	60	31	49	36	62	29	51	40	63	36	52	43
24....	52	17	43	14	42	21	68	24	59	23	48	27	59	34	40	21	49	19	39	22	46	23	51	33	43	29	51	29
25....	47	21	34	11	46	17	72	21	52	15	50	24	52	31	47	22	49	19	46	21	49	19	46	24	50	23	49	20
26....	46	25	27	7	47	15	67	22	38	10	50	24	59	33	45	25	42	19	45	25	50	19	42	27	50	30	48	28
27....	40	9	35	3	39	8	73	15	39	4	42	13	51	36	36	14	34	14	41	24	38	12	38	23	46	35	48	28
28....	60	17	41	16	68	20	74	19	67	10	66	24	45	21	58	23	53	23	52	24	57	20	53	26	55	25	56	24
29....	55	25	42	11	53	23	82	18	55	28	55	33	62	22	51	28	55	25	53	32	52	19	54	33	65	39	53	34
30....	64	21	41	15	55	18	72	12	60	12	62	29	62	32	60	26	58	24	58	31	64	22	61	36	58	50	58	33
Mns..	61.6	24.6	41.0	13.6	58.7	24.3	68.2	23.3	59.9	21.5	61.9	31.9	66.0	37.8	60.4	29.5	61.6	30.6	58.0	33.6	63.4	28.3	57.8	35.9	64.4	40.8	61.2	37.4

Date.	Oklahoma.												Missouri.												Blandville, Ky.		Jackson, Tenn.		
	Enid.		McAlester.		Mangum.		Muskogee.		Oklahoma.		Weatherford.		Woodward.		Caruthersville.		Iron-ton.		Lamar.		Olden.		Springfield.						
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.					
1....	60	38	50	36	53	33	45	35	42	28	47	32	47	27	61	42	46	34	40	31	49	34	36	32	49	40	73	42	
2....	55	28	56	26	61	21	53	27	53	28	56	24	68	19	56	33	47	25	50	22	48	35	45	32	48	31	73	36	
3....	60	33	61	37	66	25	62	33	61	37	61	27	63	39	56	26	62	38	55	28	57	30	54	28	74	25	64	33	
4....	61	40	74	52	52	34	70	48	68	47	69	37	73	57	65	40	64	46	40	63	34	66	44	62	40	64	33	69	49
5....	69	48	71	60	76	39	63	58	67	50	72	38	72	44	71	56	59	40	61	52	56	51	66	56	69	49	73	49	
6....	71	41	65	50	70	42	68	42	62	41	64	39	67	30	67	45	64	52	62	47	59	51	56	44	63	55	67	55	
7....	71	43	71	36	72	35	70	35	69	39	71	37	73	35	71	44	64	32	66	33	64	34	62	35	69	39	70	50	
8....	72	40	78	42	78	37	75	40	74	43	72	36	70	32	78	34	63	31	67	35	71	38	64	46	70	33	70	53	
9....	72	44	78	46	79	40	77	46	76	52	76	37	81	33	70	33	66	25	75	38	67	31	64	36	71	32	71	32	
10....	70	41	76																										

TABLE 3.—*Maximum and minimum temperatures at selected stations for November, 1912. District No. 7—Continued.*

Date.	Tennessee.				Arkansas.												Mississippi.				Clarks-		Corinth.		Green-			
	Kenton.		Memphis.		Benton-		Corning.		Darda-		El		Fort		Little		Pine		Texar-		Wynne.		Clarks-		Corinth.		Green-	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1.....	73	42	53	42	40	33	58	42	58	42	67	49	49	35	52	41	56	44	60	42	52	43	53	45	50	48	52	47
2.....	46	34	48	37	49	24	50	33	54	32	53	29	51	29	49	34	54	32	60	29	49	31	52	33	48	36	54	37
3.....	54	22	55	36	59	28	57	24	60	28	60	29	62	32	56	33	60	27	64	26	58	26	53	24	61	28		
4.....	.....	66	43	66	48	65	37	66	41	72	46	70	43	59	45	73	32	68	44	67	34	69	31	62	26	73	34	
5.....	.....	69	56	59	54	67	35	67	50	70	57	61	56	67	57	70	43	77	45	70	55	71	35	70	38	72	38	
6.....	68	36	64	53	55	40	67	55	72	55	76	54	62	47	67	53	69	54	77	56	66	56	69	54	68	50	71	55
7.....	68	37	62	46	66	33	67	37	69	42	69	47	67	38	68	47	68	44	79	40	68	43	66	48	64	52	69	49
8.....	63	43	70	47	71	39	73	35	77	37	76	47	74	40	74	46	77	38	78	45	72	37	76	37	73	36	75	38
9.....	68	31	68	50	71	44	70	32	72	39	78	50	76	48	71	50	78	45	79	49	70	36	73	37	70	36	78	41
10.....	65	29	73	53	72	54	77	43	77	39	78	53	74	48	74	51	77	42	80	52	76	50	76	41	76	38	78	45
11.....	74	42	74	55	73	59	74	56	76	51	89	55	76	55	73	54	77	49	78	48	76	53	76	45	74	46	79	49
12.....	74	51	75	55	67	42	75	60	78	50	79	63	70	48	77	52	78	50	72	46	76	62	51	72	50	77	52	
13.....	74	54	55	47	58	35	73	47	65	48	63	52	62	41	60	49	65	45	69	56	59	55	65	45	54	47	61	48
14.....	70	54	59	43	62	36	58	35	71	35	73	35	70	39	68	45	70	37	78	34	62	37	66	34	60	35	72	37
15.....	51	31	53	36	66	36	56	25	69	35	65	41	62	43	58	37	61	38	70	44	56	29	59	34	54	28	63	39
16.....	52	23	59	53	61	37	64	26	62	32	67	33	65	42	64	37	64	32	76	35	62	28	72	29	64	24	66	32
17.....	58	21	55	39	58	32	58	28	62	35	60	40	60	40	58	39	60	32	66	34	57	36	59	29	58	25	62	34
18.....	58	28	60	34	63	34	61	32	65	29	67	34	65	33	65	35	67	26	70	30	62	24	64	24	66	29		
19.....	59	21	67	45	68	44	71	39	72	32	71	32	72	38	69	41	69	26	73	32	71	40	70	24	69	25	71	28
20.....	67	33	67	46	70	40	72	32	67	33	72	44	66	45	67	33	73	35	63	44	70	32	68	34	72	30		
21.....	70	32	68	52	65	43	65	32	65	35	70	40	67	45	62	42	68	34	75	40	64	39	70	34	72	38	71	35
22.....	63	37	60	45	59	33	63	35	63	34	59	51	64	41	61	47	60	36	68	50	58	40	62	48	67	44	66	52
23.....	59	29	60	42	51	34	57	33	65	29	71	40	60	33	63	40	70	36	68	32	62	34	67	37	64	34	72	42
24.....	45	27	44	36	40	25	49	29	52	31	59	28	47	34	46	37	62	29	66	24	50	30	51	21	46	30	55	36
25.....	44	17	47	32	46	20	46	19	47	22	56	26	48	29	50	29	53	23	56	21	50	21	54	22	50	20	55	26
26.....	51	28	50	38	45	29	46	30	55	27	57	36	53	34	51	38	59	25	60	28	58	22	54	21	62	20		
27.....	50	28	43	35	40	26	51	35	48	33	46	38	45	32	45	34	48	35	56	36	42	31	41	32	43	39		
28.....	46	16	47	31	49	24	47	19	55	20	53	26	53	24	50	26	52	21	49	18	49	21	50	23	48	20	52	25
29.....	57	30	57	34	56	38	56	31	55	28	60	32	59	33	57	34	63	21	62	33	60	33	59	23	54	20	61	27
30.....	66	42	60	42	55	49	60	44	62	35	66	40	60	51	62	48	62	31	66	42	62	44	61	32	62	30	65	33
Mns....	60.5b	32.8b	50.6	42.9	58.6	37.3	61.7	35.6	64.7	35.9	66.6	41.2	62.6	40.0	61.4	42.3	65.2	35.4	69.1	37.9	61.3	37.8	63.5	34.6	61.1	33.7	65.8	37.8
<i>Mississippi.</i>				<i>Louisiana.</i>												<i>Louisiana.</i>				<i>Louisiana.</i>				<i>Louisiana.</i>				
Date.	Kosciusko. §§		Natchez. §§		Vicksburg.		Alexandria. §§		Baton Rouge. §§		Covington. §§		Lafayette. §§		Lake Charles. §§		Monroe. §§		New Orleans.		Robeline. §§		Schriever.		Shreveport.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1.....	50	50	66	50	61	43	58	47	56	55	62	58	60	50	64	43	54	47	70	49	60	45	62	58	56	40		
2.....	53	33	64	36	51	37	56	34	50	39	62	38	57	35	65	34	55	34	56	47	56	30	58	35	53	32		
3.....	60	26	66	34	61	35	60	30	65	35	61	31	66	28	67	35	61	28	57	42	58	28	69	30	61	33		
4.....	69	31	74	27	70	39	74	33	75	39	78	32	79	37	76	27	75	33	72	48	78	26	65	34	75	44		
5.....	73	37	74	34	73	55	77	41	80	57	76	48	80	46	79	42	73	50	71	60	69	24	83	37	74	58		
6.....	63	56	70	61	70	55	80	78	61	80	59	82	60	78	49	76	60	76	63	68	59	80	47	68	54			
7.....	68	52	69	52	66	51	71	51	70	55	76	55	77	50	76	48	71	50	70	58	74	45	72	50	76	48		
8.....	75	35	63	35	71	44	72	40	78	42	79	47	75	39	77	50	75	39	70	56	79	34	76	42	76	44		
9.....	75	40	67	33	76	51	78	47	70	49	74	48	70	43	81	41	80	42	79	42	80	35	78	42	78	46		
10.....	79	38	78	38	76	54	77	42	81	47	80	41	81	42	81	41	80	42	77	56	83	34	79	41	79	48		
11.....	77	46	80	44	78	54	79	52	79	49	85	52	82	82	80	40	80	47	79	60	82	40	84	62	80	53		
12.....	78	54	68	44	75	61	80	52	83	58	86	53	88	53	82	49	81	61	81	84	85	54	85	62	79	55		
13.....	59	48	60	38	64	45	68	48	66	55	70	57	68	53														